

## Aneroid Determinations.

On June 13, 1904, Governor Bolton provided me with two first class aneroid barometers, reading up to 20,000 feet without adjustment.

These two instruments were set at <sup>zero</sup> (0) at mean tide-water, at Tagulaya, at  $\frac{6}{10}$  o'clock, A.M., June 15, 1904.

One instrument was given over to the charge of Senor , who recorded readings at 8 A.M., 12 M., and 4 P.M., daily from June 15, 1904, at 8 A.M. to to June 23, 1904, at 8 A.M. <sup>at Tagulaya on the shore of the Gulf of Davao.</sup> All time pieces used were corrected and set together at 7 A.M. June 15, 1904. All were ordinary watches, which varied so little during the period of the observations that no correction was considered necessary. Senor check aneroid readings are attached hereto.

# Mount Apo Aneroid Readings.

	Date	Hour	Feet.
Tagulaya, at mean tide-water, Gulf of Davao	June 15, 1904,	6 A.M.	0000
" " " " "	"	7: A.M.	0000
Upper edge of cogonal, Mt. Apo trail	June 15, 1904, at	9:45 A.M.	1030
Branch of Tagulaya River, "	"	9:55 A.M.	930
Jooneahling	"	12:00 M.	1550.
House of sub-Datto where we turned down to the River,	June 16, 1904,	A.M.	1725
At the River	do	A.M.	1300
Where we left the River	do		1660
Todaya (house where we slept)	do	P.M.	3350
Todaya	do —	June 17, 1904, at 7:00 A.M.	3350
Highest cultivated fields above Todaya	do	A.M.	3500
Top of hill behind Datto Mungah's house	do	A.M.	3750
Thermal Spring	do	11:00 A.M.	4050
Reading on hillside	do	12:15 P.M.	4750
" above the little flat	do	P.M.	5260
Creek Crossing (water very cold)	do	P.M.	5275
Dr. Copeland's shack at Camp Goodfellow	do	1:40 P.M.	5600
Camp Goodfellow, June 22, 1904, at	7:00 A.M.		5700
Sulphur Vents	"		7540
Highest trap (to right of crevasse)	June 22, 1904.		7750
Bulk of high traps, near Sulphur Vent	June 26, 1904		7600
Second Sulphur Vent	"		8100
Camp Goodfellow	"	2 P.M.	5830

<u>Aneroid Readings, June 28, 1904:-</u>		
Camp Goodfellow,	6:45 A.M.	5710 feet
"	6:00 P.M.	5900 "
Trap-box	7:15 A.M.	6200 "
Headquarters of <u>Goodfellowia miranda</u> (7 shot).		6250 "
Traps and canyon,	7:40 A.M.	6575 "
Quide's Rest, above steep rocks,	8:30 A.M.	7240 "
"	4:00 P.M.	7400 "
" or Brick Tile, Tablet	8:45 A.M.	7450 "
"	3:00 P.M.	7700 "
Small boulder, <sup>of Davao,</sup> fine view,		8100 "
Small steam-vent in trail		8800 "
E. Peak (shoulder) of Apo	10:00 A.M.	8900 "
"	? P.M.	9000 "
✓ On arrival at monument and bottle, <sup>10:45 A.M.</sup> exactly "Same" 9500 "		
<sup>Same observation as above</sup> Middle or main peak	<sup>10:45 A.M.</sup> <del>12:00 M.</del>	9500 "
Laguna in Apo crater	12:00 M.	9250 "
Top of recent slide scar, on leaving peak		9500 "
[ Dr. C. B. Copeland's aneroid, April 20, 1904, 9080 "		
On April 23, 1904, he noted: "Barometer dropped while here from 9320 to 9500." ]		

# Aneroid Readings. June 30, 1904.

By Fletcher L. Keller.

Camp Goodfellow

" "

Guide's Rest.

Tablet

"

East Spur of East Peak

Highest trap on right side of canyon

Aneroid Reading at

(Thermometer, 71° F.)

Hour.

Feet.

5:00 A.M.

5940

2:20 P.M.

6075

7:15 A.M.

7425

12:30 P.M.

7450

7:40 A.M.

7650

12:00 M.

7750

10:00 A.M.

9050

About <sup>1:30</sup>noon?

7900

July 12, 1904:-

6:00 P.M.

7800.

# Aneroid Readings, July 1, 1904.

Camp Goodfellow	6:30 A.m.	5940
" "	6: P.m.	5940
Canyon and <del>trap</del> traps	8: A.m.	6800
Guide's Rest	9: A.m.	7425
" "	4:15 P.m.	7525
Tablet	9:15 A.m.	7700
" "	3:15 P.m.	7815
East Peak	10:15 A.m.	9080
" " (returning)	no time?	9160
Main Peak	11:15 A.m.	9640
" "	2: P.m.	9700
Crater Lake	1: P.m.	9400
<del>N. Peak</del> Crater Lake	1:45 P.m.	9450
(The little rocky peak at N. extremity where North Peak I left record is 10 feet lower).		
North Peak	11:45 A.m.	9700
Middle Peak has 4 rocky hummocks:		
E. Point, nearest N. Peak	12:11 P.m.	9675
W. Point, close by	12:15 P.m.	9700
Middle Peak	12:17 P.m.	9710
SE. Point	12:21 P.m.	9675
SW. Point	12:25 P.m.	9610
} next to the crater pool		
West Main Peak	12:38 P.m.	9655

Aneroid Readings,  
July 5, 1904.

Swan Goodfellowia miranda  
Foot of Canyon and traps  
Guide's Rest  
Tablet

E. Spur of East Peak  
East Peak

Valley between Middle and North peaks  
Crater Lagoon

Apex (highest <sup>comp. point of several recent points</sup> one) of Middle Peak  
(Sun sets) July 6, 1904.

Camp at notch

W(="N") Peak at  
Notch (camp)

East Peak Summit  
East Spur of East Peak  
Tablet

Guide's Rest

Foot of Canyon and traps  
Camp Goodfellow

<u>Hour</u>	<u>feet.</u>
7:00 A.M.	6300
7:30 A.M.	6700
8:15 A.M.	7350
9:20 A.M.	7650
10:45 A.M.	9025
2:00 P.M.	9700
4:00 P.M.	9650
5:15 P.M.	9450
5:45 P.M.	9775
5:30 A.M.	9740
6:00 A.M.	9825
7:00 A.M.	9720
7:20 A.M.	9800
8:30 A.M.	9220
9:20 A.M.	7880
9:45 A.M.	7540
10:15 A.M.	6900
12: M.	5960

<u>July 8, 1904.</u> — Aneroid at 5:30 A.M.			6000 ft.
Thermometer	" 5:30 A.M.		52° F.
Aneroid barometer	" 12 M		6000 ft.
Thermometer at	" 12 M		67° F.
Aneroid barometer	" 2 P.M.		6050 ft.
Thermometer	" 2 P.M.		66° F.
Aneroid barometer	" 5 P.M.		6050 ft.
" "	" 6 P.M.		6025 ft.
Thermometer	" 6 P.M.		58° F.
" "	" 10 P.M.		6000 ft.

<u>July 9, 1904.</u> — Aneroid at 3 <sup>a</sup> A.M.			6000 ft.
Thermometer	" 3 A.M.		54° F.
Aneroid barometer	" 6 A.M.		6000 ft.
Thermometer at	" 6 A.M.		53° F.
Aneroid barometer	" 12 M.		6000 ft.
Thermometer (shade)	" 12 M		67° F.
Thermometer (sun)	" 12 M.		84° F.
Thermometer	" 7:15 P.M.		55° F.
Aneroid barometer	" 6:00 P.M.		6050 ft.

Datto Mung'-uh came up to Camp Goodfellow with his men to move us down to Lo-dy'-uh to-morrow.

# Mount Apo Aneroid Readings.

Camp Goodfellow. July 2, 1904, at 3:00 P.M. 5950

" " " 3, " , " 8:00 A.M. 5875

" " " 3, " , " 6:00 P.M. 5930

" " " 7, " , " 6:00 A.M. 6000

" " " 7, " , " 12:00 M. 6000

" " " 7, " , " 9:30 P.M. 5900

" " " 8, " , " 5:30 A.M. 6000

" " " 8, " , " 12:00 M. 6000

" " " 8, " , " 2:00 P.M. 6050

" " " 8, " , " 5:00 P.M. 6050

" " " 8, " , " 6:00 P.M. 6025

" " " 8, " , " 10:00 P.M. 6000

" " " 9, " , " 3:00 A.M. 6000

" " " 9, " , " 6:00 A.M. 6000

" " " 9, " , " 12:00 M. 6000

" " " 9, " , " 6:00 P.M. 6050

" " " 10, " , " 6:00 A.M. 6000

1<sup>st</sup> Crossing of See-rec'-bahn River, " 7:40 A.M. 5650

2<sup>nd</sup> " " " " 10:05 A.M. 5275

The tree-trunks lose their heavy coating of moss at 5000

" At 9:20 A.M. crossed the See-rec'-bahn <sup>See-rec'-bahn</sup> Aneroid <sup>See-rec'-bahn</sup> 4350

Top of hill back of Datto Mung-uh's house, at 10:50 A.M. 4225

Foot of Todaya Hill 11:40 A.M. 3550



# Mount Apo Aneroid Readings.

Datto Munguh's house at Todaya	July 10, 1904,	at 12:00 m	3875
" " "	July 10, 1904,	6:30 P.M.	3850
do	July 11, 1904,	9:00 A.M.	3700
do	July 11, 1904,	at <del>6:00</del> <sup>7:30</sup> P.M.	3800
do	July 12, 1904,	at 6:30 A.M.	3780
do	July 12, 1904,	at 6:00 P.M.	3800
do	July 13, 1904,	at 6:00 A.M.	3800
Lowest house of Todaya Village	" 13, "	" 7:20 A.M.	3000
Soo-boo-ahn River	" 13, "	" 8:15 A.M.	2050
Sal-oo-h-soo'-bahn River <sup>on reaching</sup>	" 13, "	" 8:30 A.M.	2025
do on leaving	" 13, "	" 9:50 A.M.	1730
Old Punctico's house at top of hill	" 13 "	" ? A.M.	2140
Tooncahling, Datto Ali's house	" 13, "	" 10:45 A.M.	2000
Behr-ah-eh'-ton River	" 13, "	" 1:45 P.M.	1400
Top of hill at point of cogonal	" 13, "	" 2:20 P.M.	1520
Tagulaya (mountain aneroid)	" 13, "	" 4:30 P.M.	480
" Cheek	" " 13, "	" 4:30 P.M.	150
" mountain	" " 13, "	" 10:00 P.M.	325
" Cheek	" " 13, "	" 10:00 P.M.	80
" mountain	" " 14, "	" 6:00 P.M.	350
" Cheek	" " 14, "	" 6:00 P.M.	100
" mountain	" " 15, "	" 7:00 A.M.	300
" Cheek	" " 15, "	" <del>12:00</del> <sup>7:00</sup> A.M.	140

# Mount Apo Aneroid Readings.

Tagulaya <sup>July 15, 1904.</sup> Mountain aneroid at 12:00 m. 375  
" July 15, 1904. Check " " 12:00 m. 140

1904  
June  
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# Thermometer readings on Mount Apo.

Datto Mungah's house at Todaya	July 10, 1904	5:00 A.M.	71
do	July 10, 1904	9:00 A.M.	80
do	July 11, 1904	6:00 P.M.	78
do	July 11, 1904	7:30 P.M.	78
do	July 12, 1904	6:30 A.M.	65
do	July 12, 1904	6:00 P.M.	71
do	July 13, 1904	6:00 A.M.	65
Lowest house of Todaya Village	" 13, "	7:20 A.M.	74
Soo-bu-ahn River	" 13, "	8:15 A.M.	76
do " water	13 "	8:20 A.M.	<sup>lost</sup>
End of trail in Canyon of Sal-ook-soo	13 "	9:50 A.M.	<sup>air</sup> 79
do	13 "	9:50 A.M.	<sup>water</sup> 69
Datto Ali's house at Looneahling	" 13 "	10:45 A.M.	83
Bahr-ah-eh'-ton River	" 13 "	1:45 P.M.	83
Tagulaya	" 13 "	4:30 P.M.	84
"	" 13 "	10:00 P.M.	78
"	" 14 "	6:00 P.M.	82
"	" 15 "	7:00 A.M.	75
"	" 15 "	12:00 M.	83

Thermometric readings on Mount Apo.

July 1, 1904, 6 P.M. = 62°

" 2, " , 5:30 A.M. = 51

" 2, " , 12 M. = 64

" 2, " 6 P.M. = 62

" 2, " , 10:30 P.M. = 54

" 3, " , 5:50 a.m. = 54

" 3, " , 12 m. = 64

1 3, " 2 6 P.M. = 63

" 3, " , 9:15 P.M. = 56

" 3, " 11:15 P.M. = 55

" 4 " , 12:02 A.M. - 54

" 4 " , 6:00 A.M. = 49

" 4 " , 8:30 A.M. = 57

" 4 " , 12 M. = 64

" 4 " 3 3 P.M. = 65  $\frac{1}{2}$

" 4 " , 6 P.M. =  $59\frac{1}{2}$

" 4 " , 8:30 P.M. 58

" 5 " , 12:01 A.M. = 55

" 5 " , 6 a.m. = 52

" 6 " , 6 P.M. = 62

" 7 " , 12:01 a.m. = 54

" 7 " , 5 a.m. = 53

" 7 " , 6:00 P.M. = 59

" 7 " , 9:30 P.M. = 57

July 4, 1904. Shade Temperature

of Sec-rec'-bon River water 64

Spring water at Camp Goodfellow  $57\frac{1}{2}$

July 8, 1904, 5:30 A.M. 52

" 8, " , 12:00 m. 67

" 8, " , 2:00 P.M. 66

" 9, " , 3:00 A.M. 54

" 9. " , 6:00 A.M. 53

" 9. " , 12:00 M (shade) 67

" 9, " , 12:00 M. (Sun) 84

" 9. " , 7:15 P.m. 55

10, " 6:00<sup>a</sup> m. 51

10, " Water of Thermal Spring 120+

10. " " " Tahm'-bō River 70

10 " Just before 9:00 A.M. <sup>Spring</sup> Air temperature at thermometer 69

Just before 9:00 A.M.  
10 " Water 2d crossing Tahm-bo River 71

10 } At 9:20 a.m. crossed the See-pee  
" - Lake River, the water having the temperature 65

10 { top of hill back of Datto Mungah's  
" house at 10:50 a.m. 76

10 " Foot of Todaya Hill 11:40 a.m. 80

10 .. Datto Mungah's 12: Yu. 83

10 " " " 6:30 P.M. 71

10 " " " 7:30 P.m. 68

# Mount Apo. Thermometer Readings.

July 5, 1904:—

Canyon and traps

Tablet

East Spur of East Peak

East Peak

Notch between North and Middle Peaks

West Peak

Air temperature at Crater Lagoon

Water temperature of Crater Lagoon

Highest point of Middle Peak

Camp in notch

do

do  
July 6, 1904:—

do

do

do

Summit of West Peak

Air temperature at Camp (shade)

Water temperature at camp (20 minutes)

East Peak

East Spur of East Peak

Tablet

Guide's Rest

Foot of Canyon and traps

Hour. Degrees, Fahrenheit.

7:45 a.m. 64

9:20 a.m. 70

10:45 a.m. 62

2:00 p.m. 57

4:00 p.m. 52

5:00 p.m. 50

5:13 p.m. 49

5:23 p.m. 54

5:45 p.m. 45

6:00 p.m. 46

7:00 p.m. 44

12:00 midnight 43

3:00 a.m. 42

5:00 a.m. 41

5:30 a.m. 44

6:00 a.m. 48

6:30 a.m. 48

6:55 a.m. 47

7:20 a.m. 50

8:30 a.m. 55

9:30 a.m. 61

9:45 a.m. 64

10:15 a.m. 75

## ABSTRACT OF MEDICAL PROPERTY—Continued.

NO. VOUCHERS.

## ADDITIONAL ARTICLES.

TOTAL CARRIED FORWARD

TOTAL.

1st  
Feb. 2nd. 1888. Otto Koch and Dr. Hugo Schauenberg  
2d Feb. 14th 1888. L. Burk.  
3d June 20 1900. Chas. O. Thomas Jr. 1st. Lieut. U. S. Vol. Inf.  
" " " A. P. Whitmarsh.  
4th May 1933 G. L. Hoover Lincoln Neb.  
" " B. F. Devore Marysville, Calif.  
May 20th. 1914 L. B. Copeland Sierra Club of San Francisco  
Bureau of Geol. Manila, incised readings 1937 ft.  
visited near crests & built monuments on them  
March 1505 of D.  
April 23rd had a wind storm, then  
see 200 ft. Barometer drift 1 inch from 9 to 1.94  
June 28 1924 arrived reading 1500 ft. exactly 3 ft. & Stearns  
Station of the same name.

ARTICLES.

MEDICINES—Continued.

Sinapis nigra (pulvis), in 500-gm. tins .....tins.  
Sodii bicarbonas, in 500-gm. bottles.....botts.  
Sodii bicarbonas, 324-mgm. tablets (200 in bottle), for field use only.....botts.  
Sodii bicarb. et menthae ppp. (tablets), (350 in bottle).....botts.  
Sodii boras (pulvis), in 500-gm. bottles.....botts.  
Sodii bromidum, in 250-gm. bottles.....botts.  
Sodii hyposulphis, in 250-gm. bottles.....botts.  
Sodii phosphas, in 100-gm. bottles.....botts.  
Sodii salicylas, in 500-gm. bottles.....botts.  
Sodii salicylas, 324-mgm. tablets (200 in bottle).....botts.  
Strophanthi tinctura, in 100-c.c. bottles....botts.  
Strychnine sulphas, 1-mgm. tablets (500 in bottle).....botts.  
Sulphonal, 324-mgm. tablets (200 in bottle) .botts.  
Sulphur lotum, in 250-gm. bottles.....botts.  
Terphenum, in 250-c.c. bottles.....botts.  
Thymol, in 25-gm. bottles.....botts.  
Tolatanum balsamum, in 250-gm. tins.....tins.  
Valeriane extractum fluidum, in 250-c.c. bottles.....botts.  
Veratri viridis tinctura, in 100 c. c. bottles .botts.  
Zinci oxidum, in 250-gm. bottles.....botts.  
Zinci sulphas, in 500-gm. bottles.....botts.  
Zinci sulphas, 324-mgm. tablets (100 in bottle), for field use only.....botts.  
Zingibers extractum fluidum, in 250-c. c. bottles.....botts.

ANTISEPTICS AND DISINFECTANTS.

Acid, carbolic, crude, in 1-kilo. bottles.....botts.  
Antiseptic tablets (200 in bottle).....botts.  
Ironsulphate, commercial, in 10-kilo. boxes, boxes.  
Irine, chloride, in 500-gm. w. m. bottles.....botts.  
Mercury corrosive chloride, in 500-gm. botts .botts.  
Soda, chlorinated solution (6 per cent avail-able chlorine), in 1-liter bottles.....botts.  
Sulphur, in roll.....kilo.  
Tricresol, in 1-kilo. bottles.....botts.

HOSPITAL STORES.

Beef extract, in 100-gm. tins or jars.....tins.  
Brandy, in 1-liter bottles.....botts.  
Soap, Castile or its equivalent.....kilo.  
Soap, common.....kilo.  
Sugar, white, in 6-kilo. tins.....tins.  
Whisky, in 4-liter bottles.....botts.

MICROSCOPICAL ACCESSORIES.

Agar-agar, in 500-gm. packages.....pkgs.  
Alcohol, absolute, in 250-c.c. g.s. bottles.....botts.  
Aniline oil, in 125-c.c. bottles.....botts.  
Balsam bottle.....no.  
Bismarck brown, in 4-gm. bottles.....botts.  
Canada balsam, in 30-c.c. bottles.....botts.  
Carmine, in 15-gm. bottles.....botts.  
Eosin, in 15-gm. bottles.....botts.  
Fuchsin, in 15-gm. bottles.....botts.  
Gelatin, in 60-gm. packages.....pkgs.  
Gentian violet, in 15-gm. bottles.....botts.  
Glass covers, 16 or 19 mm. square.....gms.  
Glass slides, 27 x 75 mm.....doz.  
Hematoxylin, in 8-gm. bottles.....botts.  
Methylene blue, in 15-gm. bottles.....botts.  
Oil of cedar, in 30-c.c. bottles.....botts.  
Peptone, in 250-gm. w. m. bottles.....botts.  
Paraffin, in 250-gm. cakes.....cakes.  
Xylenum, in 250-c.c. bottles.....botts.  
STATIONERY.  
Books, letter.....no.  
Books, waste paper.....no.  
Blank books, cap, 4 quire.....no.  
Blank books, 5mo, 4 quire.....no.

UNSA

RAJAL

W. A. B. Mangal  
LSTILION

May 7, 1903 = 9/10/100  
P. H. A. Vore.

10 OBTURHE 1880.



(21)  
 The ... ..  
 ... ..

... .. May 10. 06.

Time	Barom.	...
1 am	29.0	...
2 am	29.10	...
3 am	29.00	...
4 am	28.8	...
5 am	28.6	...
6 am	28.30	...
7 am	28.0	...
8 am	27.7	...
9 am	27.6	...
10 am	27.4	...
11 am	27.0	...
12 am	30.0	...
1 pm	30.0	...
2 pm	30.0	...
3 pm	30.0	...
4 pm	30.0	...
5 pm	30.0	...
6 pm	30.0	...
7 pm	30.0	...
8 pm	30.0	...
9 pm	30.0	...
10 pm	30.0	...
11 pm	30.0	...
12 am	30.0	...

22



Time	Temp.	Wind	Bar.	Rel. Hum.	Clouds	Remarks
3m	30		41.00			
10m	60		39.00			
5m	70		38.00			
10m	60		36.00			
5m	80		35.50			
5m	40		34.50			
10m	70		33.00			
5m	100		32.00			
15m	100		33.00			
5m	340		34.00			
5m	50		35.00			
10m	90		37.00			
15m	260		42.00			
20m	340		47.00			
10m	250		45.50			
25m	360		49.00			
15m	270		47.00			
5m	270		46.00			
30	360		42.00			
30	360		38.00			

10. 10. 10. 10.

$\sigma_{\text{eff}} = \frac{\sigma}{1 + \nu}$

... and the following:

2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-2726-2727-2728-2729-2730-2731-2732-2733-2734-2735-2736-2737-2738-2739-2740-2741-2742-2743-2744-2745-2746-2747-2748-2749-2750-2751-2752-2753-2754-2755-2756-2757-2758-2759-2760-2761-2762-2763-2764-2765-2766-2767-2768-2769-2770-2771-2772-2773-2774-2775-2776-2777-2778-2779-2780-2781-2782-2783-2784-2785-2786-2787-2788-2789-2790-2791-2792-2793-2794-2795-2796-2797-2798-2799-2800-2801-2802-2803-2804-2805-2806-2807-2808-2809-2810-2811-2812-2813-2814-2815-2816-2817-2818

High tree and tree 225' in diam.

5257010 in 5 min.

200 y. old in 5000.

Rate of Change

Descending from highest end of Ridge.

2000-01-01

Gesellschaft v. Maximilian & Maria

George W. H. Roberts and wife

Inter-Group: over 50-75' low

[illegible]

11/21/20



(6)

Time Ascents. Elevation

Remarks.

20m. 507 5:50

Keep on line over rough country.

15m. 350. 6:30

Climbing. Reaching top of hill. 5m.

5m. 5:45 6:00.

Watch water pump. The meadow flats.

Stent. W. Murray, Etc. Jan 24.03 7am.

20m. 3:40.

Climacter. Reaching top of hill. 5m.

2h. 10m. 3:60.

average rate of 200' in 5 min.

Arrived on Summit. Elevation according  
 observations by barometer and aneroid  
 from Mt. Elia and the Murray flats.  
 9200 feet.

ban. 470





2

June 3, 1867, 2000

at about distance

Rimrock

June 4, 1867, 2000

5 miles

Fair West

June 5, 1867, 1000

50 miles

at about distance

June 6, 1867, 1000

1 1/2 miles

at about distance Mountain Mountain

June 7, 1867, 1000

5 miles

at about distance

June 8, 1867, 1000

at about distance

June 9, 1867, 1000

9 miles

126° - 7.30'

4 miles

Flat Top Mountain

80° - 12.15'

3 miles

15 miles

Mt. Eschscholtz

350° - 2.15'

5 miles

Coast Range

16° - 3°

8 miles

Mt. Van Allen

216° - 8.11'

5 miles

Mt. West

240° - 5.50'

5 miles

10 miles

Date Aug 1st 1900. E. Estimated Distance  
112 Miles.

11:15 AM 2500 - 9000 4/10 miles 78

Traveling from Port a: M. S. to Port  
2850 500 20.00

Examination of the mountain road, etc.

Date	Time	Therm.	Barometer.
Line 9th May 9 days.			
June 6. 06	8 am.	60	6050.
	12 m.	62	6100.
	6 Pm.	60	6075
June 7. 06	8 am.	60	6075
	12 m.	63.	6100
	6 Pm.	60	6075
June 8. 06	6 am.	57.	6100
	Line		
June 8. 06	8 am.	70°	5750
June 9. 06	6 am.	59°	5700
June.	10 am.	70°	5825
Cachagon.			
June 9. 06	6 Pm.	77.	1160
June 10. 06	8 am.	78	1100.
	12 m.	82	1150
	6 Pm.	78	1175
June 11	6 am.	72	1100.
June 11. 06. (Barometer 125' Elev)			
June 11.	12 m.	84	85
Mizamis (Therm 40' Elev)			
June 11.	6 Pm.	84	100
June 12	6 am.	75	30
	12 m.	89	70.
June 13.	6 am.	75	25.